Aeronautics Educator Guide			
1997 Mathematics			
Learning Standards			
Illinois Mathematics			
Grades K-3			
Activity/Lesson	**State**	**Standards**	
Air Engines (12-16)	IL	MA.K-3.7.A.1a	Measure length, volume and weight/mass using rulers, scales and other appropriate measuring instruments in the customary and metric systems.
Rotor Motor (69-75)	IL	MA.K-3.10.B.1b	Collect, organize and describe data using pictures, tallies, tables, charts or bar graphs.
Flight: Interdisciplinary Learning Activities (76-79)	IL	MA.K-3.6.A.1a	Identify whole numbers and compare them using the symbols <, >, or = and the words "less than", "greater than", or "equal to", applying counting, grouping and place value concepts.
Flight: Interdisciplinary Learning Activities (76-79)	IL	MA.K-3.10.B.1c	Analyze data, draw conclusions and communicate the results.
Making Time Fly (80-86)	IL	MA.K-3.10.B.1b	Collect, organize and describe data using pictures, tallies, tables, charts or bar graphs.
Plan to Fly There (97-106)	IL	MA.K-3.7.A.1b	Measure units of time using appropriate instruments (e.g., calendars, clocks, watches—both analog and digital).
We Can Fly, You and I: Interdisciplinary Learning (107-108)	IL	MA.K-3.7.A.1b	Measure units of time using appropriate instruments (e.g., calendars, clocks, watches—both analog and digital).
Dunked Napkin (17-22)	IL	MA.K-3.10.A.1b	Answer questions and make predictions based on given data.
Dunked Napkin (17-22)	IL	MA.K-3.10.B.1c	Analyze data, draw conclusions and communicate the results.
Paper Bag Mask (23-28)	IL	MA.K-3.9.A.1b	Draw two-dimensional shapes.
Paper Bag Mask (23-28)	IL	MA.K-3.10.A.1b	Answer questions and make predictions based on given data.
Wind in Your Socks) (29-35)	IL	MA.K-3.7.A.1a	Measure length, volume and weight/mass using rulers, scales and other appropriate measuring instruments in the customary and metric systems.
Sled Kite (44-51)	IL	MA.K-3.7.A.1a	Measure length, volume and weight/mass using rulers, scales and other appropriate measuring instruments in the customary and metric systems.
Right Flight (52-59)	IL	MA.K-3.10.A.1b	Answer questions and make predictions based on given data.
Delta Wing Glider (60-68)	IL	MA.K-3.10.A.1b	Answer questions and make predictions based on given data.
Aeronautics Educator Guide			
1997 Mathematics			
Learning Standards			

Illinois Mathematics			
Grades 4-5			
Activity/Lesson	**State**	**Standards**	
Air Engines (12-16)	IL	MA.4-5.7.A.2a	Calculate, compare and convert length, perimeter, area, weight/mass and volume within the customary and metric systems.
Rotor Motor (69-75)	IL	MA.4-5.10.A.2a	Organize and display data using pictures, tallies, tables, charts, bar graphs, line graphs, line plots and stem-and-leaf graphs.
Rotor Motor (69-75)	IL	MA.4-5.10.B.2b	Collect, organize and display data using tables, charts, bar graphs, line graphs, circle graphs, line plots and stem-and-leaf graphs.
Flight: Interdisciplinary Learning Activities (76-79)	IL	MA.4-5.10.A.2a	Organize and display data using pictures, tallies, tables, charts, bar graphs, line graphs, line plots and stem-and-leaf graphs.
Flight: Interdisciplinary Learning Activities (76-79)	IL	MA.4-5.10.B.2b	Collect, organize and display data using tables, charts, bar graphs, line graphs, circle graphs, line plots and stem-and-leaf graphs.
Making Time Fly (80-86)	IL	MA.4-5.10.B.2b	Collect, organize and display data using tables, charts, bar graphs, line graphs, circle graphs, line plots and stem-and-leaf graphs.
Let's Build a Table Top Airport (91-96)	IL	MA.4-5.9.A.2a	Build physical models of two- and three-dimensional shapes.
Dunked Napkin (17-22)	IL	MA.4-5.10.A.2c	Make predictions and decisions based on data and communicate their reasoning.
Dunked Napkin (17-22)	IL	MA.4-5.10.B.2b	Collect, organize and display data using tables, charts, bar graphs, line graphs, circle graphs, line plots and stem-and-leaf graphs.
Dunked Napkin (17-22)	IL	MA.4-5.10.B.2d	Interpret results or make relevant decisions based on the data gathered.
Paper Bag Mask (23-28)	IL	MA.4-5.9.A.2a	Build physical models of two- and three-dimensional shapes.
Paper Bag Mask (23-28)	IL	MA.4-5.9.A.2c	Describe and draw representations of geometric relationships, patterns, symmetries, and designs in two- and three-dimensions with and without technology.
Paper Bag Mask (23-28)	IL	MA.4-5.10.A.2c	Make predictions and decisions based on data and communicate their reasoning.
Wind in Your Socks) (29-35)	IL	MA.4-5.9.C.2	Formulate logical arguments about geometric figures and patterns and communicate reasoning.
Wind in Your Socks) (29-35)	IL	MA.4-5.10.A.2a	Organize and display data using pictures, tallies, tables, charts, bar graphs, line graphs, line plots and stem-and-leaf graphs.
Wind in Your Socks) (29-35)	IL	MA.4-5.10.A.2c	Make predictions and decisions based on data and communicate their reasoning.
Wind in Your Socks) (29-35)	IL	MA.4-5.10.B.2b	Collect, organize and display data using tables, charts, bar graphs, line graphs, circle graphs, line plots and stem-and-leaf graphs.
Bag Balloons (40-43)	IL	MA.4-5.10.B.2a	Formulate questions of interest and select methods to systematically collect data.

Sled Kite (44-51)	IL	MA.4-5.10.B.2a	Formulate questions of interest and select methods to systematically collect data.
Right Flight (52-59)	IL	MA.4-5.10.A.2c	Make predictions and decisions based on data and communicate their reasoning.
Delta Wing Glider (60-68)	IL	MA.4-5.10.A.2c	Make predictions and decisions based on data and communicate their reasoning.